CLAIMS

What I claim as my invention is -

1. (currently amended): A process ~~which comprises~~of combining ~~wireless mobile communication~~ services to build a ~~more complex~~ wireless mobile communication service by means of a graphical user interface (GUI), wherein:

———a ~~more complex~~ built wireless mobile communication service, termed herein compound wireless mobile communication service (CWS), consists of component services and a compiled said CWS is enacted as a sequence of the said combined services:

by a mobile station (MS) or executed by a mechanism used to communicate to said MS, whereby the following building steps comprise a unique and a novel software process to build a said CWS:

a) A builder selects a component service from a menu and drags an image (icon) of the selected said component service to a build area of a computer screen used for building a said CWS;

b) After the builder locates the said component service icon in the said build area for building a said CWS, for those component services having parameters, a compiler displays a window containing the said component service's parameter names and default values for these parameters;

c) The said CWS builder is now permitted by the said compiler to substitute new parameter names and to change default parameter values to represent initial condition values for the parameters when the said compiled CWS begins its execution;

d) After completion of the preceding step, the said compiler's window disappears and a graphical icon representation of the said component service remains containing the said CWS builder's decided parameter names, along with a window of the said CWS builder's decided parameters' initial condition values;

e) If the said CWS is to contain another said component service, steps a), b), c), and d) are iterated such that for more than one said component service, the builder identifies the sequence of said component service executions by selecting an arrowed line icon from a menu and dragging the icon line to interconnect a pair of said component services such that the tail of the arrowed line begins at the antecedent said component service icon and the arrow head terminates on the succeeding said component service icon.

2. (currently amended): The process of claim 1, further comprising:

a combination of fundamental wireless mobile communication services (FWS) ~~(fundamental wireless mobile communication services is defined in the BACKGROUND OF THE INVENTION section).~~

wherein the said FWS are elementary component services, representing building block services, that are produced by conventional coding via a suitable software language, and these said FWS are considered by the said method to be single services; meaning that the said FWS represent the bases for all said CWS.

3. (currently amended): The process of claim 1, further comprising:

said component services that themselves are a combination of ~~compound wireless mobile communication~~ services built by the process of claim 1, signifying that the process of claim 1 permits a builder to apply recursion of said CWS when building a said CWS.

4. (currently amended): The process of claim 1, further comprising:

said component services that are built from a combination of said fundamental wireless mobile communication services and a combination of said ~~compound wireless mobile communication~~component services.

5. (canceled)

6. (currently amended): The ~~processes~~ of claim 1, wherein: a said CWS~~compound wireless mobile communication service~~ may have as its builder one or more of the following independent and disparate parties without the necessity of preliminary negotiations among these parties:

~~a~~ wireless mobile communication subscribers/users;

~~a wireless mobile communication user;~~

~~a~~ wireless mobile communication service providers;

~~a wireless mobile communication equipment manufacturer;~~

~~a~~ wireless mobile communication equipment suppliers/manufacturers;

~~a software manufacturer;~~

~~a~~ computer software suppliers/manufacturers;

~~a~~ third party applications/services providers~~;~~.

~~a third party service provider;~~

7. (currently amended): The ~~processes~~ of claim 1, wherein the following methods apply:

a) building said CWS~~a compound wireless mobile communication service may be built~~ using computer facilities and then ~~compounded~~ compiling and ~~downloaded~~ downloading said CWSinto said MS~~onto a wireless mobile terminal~~;

~~the computer facilities include software to assist in the building of compound wireless mobile communication services;~~

b) using said~~the~~ computer facilities to select~~provide~~ graphical and/or textual images that represent said component services to build said CWS where said component services are represented by named operational or functional expressions that can contain dependent parameters and/or independent parameters~~can be selected by means of computer accessories as a computer "mouse"~~;

~~the graphical and/or textual images represent wireless mobile communication services, including compound wireless mobile communication services and facility services (for convenience the term "component services" is to apply to any of the services);~~

~~the component services are represented by named operational or functional expressions and possibly have one or more dependent parameters and possibly one or more independent parameters;~~

c) using said~~the~~ computer facilities ~~include an opportunity~~ to request "help" to explain and clarify the application and use of a selected graphical and/or textual image.

8. (canceled)

9. (currently amended): The improvements~~methods~~ of claim 7 ~~or claim 8, inclusively,~~wherein further improvements comprise~~:~~

a said ~~wireless mobile terminal~~MS ~~itself~~ that contains the said GUI and the said compiler ~~facilities~~ to build said CWS.~~compound wireless mobile communication services.~~

10. (currently amended): The processes of claim ~~5~~2, claim 3, or claim 4 wherein~~:~~

a menu of facility services icons are used for provide~~ing~~ one or more of the following operations as~~(or processes)~~ component services in compound wireless mobile communication services~~:~~-

a) computing arithmetic functions ~~(e.g., addition, division)~~;

~~transcendental functions (e.g., trigonometric, exponential);~~

b) assigning~~assignment of~~ values to parameters~~(e.g., equality)~~;

c) conditioning the execution of said component service on an event determination ~~(e.g., determine if a traffic delay message exists)~~;

d) determining if parameters are equality ~~determination (e.g., determine when a wireless mobile terminal is at a certain location)~~;

e) determining if parameters are unequal~~inequality determination (e.g., determine if the computed travel time exceeds a specified limit)~~;

f) pausing the execution of said CWS~~pause compound wireless mobile communication service execution (i.e., go into an idle state for specified time duration)~~;

~~event conditioned execution (i.e., go to a component service when a certain event occurs);~~

~~truth determination (i.e., determine if a condition or an assertion is true or false);~~

~~logical assignment (i.e., assign a true or false value to a condition or an assertion);~~

~~negation (i.e., reverse the logical assignment of a condition or an assertion);~~

~~conjunction (i.e., apply the logical connective "and" between a pair of conditions or between a pair of assertions);~~

~~disjunction (apply the logical connective "or" between a pair of conditions or between a pair of assertions);~~

~~compound assertion (i.e., form an assertion from other assertions by the use of some combination of negation, and/or conjunction, and/or disjunction);~~

~~compound condition (i.e., form a condition from other conditions by the use of some combination of negation, and/or conjunction, and/or disjunction);~~

g) branching on a condition ~~(i.e., go to a component service when a certain condition exists)~~;

h) displaying a parameter value ~~(e.g., show the computed travel time to a destination on a wireless mobile terminal)~~;

i) announcing (playing) an audible parameter ~~announce a~~ value (~~e.g., verbalize that a new travel route has been determined on a wireless mobile terminal).~~;

j) invoking said CWS;

k) evaluating a service constraint.

11. (currently amended): The methods of claim 6~~7 or claim 8~~ wherein further improvements comprise a~~, inclusively, further comprising:~~ ~~A~~ menu and compiler to use:~~for selecting component services exists that provide for one or more of the following -~~

~~to incorporate any of the facility services of claim 7 into the compound wireless mobile communication service being built;~~

~~to incorporate any of the fundamental wireless mobile communication services made available by the wireless mobile communication service provider into the compound wireless mobile communication service being built;~~

~~to incorporate~~ any of the compound wireless mobile communication services made available by a source identified in claim 6 as a said component service to build said CWS.~~wireless mobile communication subscriber into the compound wireless mobile communication service being built;~~

~~to incorporate any of the compound wireless mobile communication services made available by a wireless mobile communication user into the compound wireless mobile communication service being built;~~

~~to incorporate any of the compound wireless mobile communication services made available by a wireless mobile communication service provider into the compound wireless mobile communication service being built;~~

~~to incorporate any of the compound wireless mobile communication services made available by a wireless mobile communication equipment manufacturer into the compound wireless mobile communication service being built;~~

~~to incorporate any of the compound wireless mobile communication services made available by a wireless mobile communication equipment supplier into the compound wireless mobile communication service being built;~~

~~to incorporate any of the compound wireless mobile communication services made available by a software manufacturer into the compound wireless mobile communication service being built;~~

~~to incorporate any of the compound wireless mobile communication services made available by a software supplier into the compound wireless mobile communication service being built;~~

~~to incorporate any of the compound wireless mobile communication services made available by a third party applications provider into the compound wireless mobile communication service being built;~~

~~to incorporate any of the compound wireless mobile communication services made available by a third party service provider into the compound wireless mobile communication service being built.~~

12. (currently amended): The ~~methods~~improvements of claim 10~~7 or claim 8, inclusively,~~ further comprising~~:~~

a menu of ~~one or more~~ special capabilities that achieve the following -

a) ~~to~~ drawing lines with arrowheads that manifests the execution sequence of said component services;

b) ~~to~~ entering alphanumeric characters into said geometric elements when building ~~a~~ said CWS~~compound wireless mobile communication service~~;

c) ~~to enter~~ drawing geometric elements as rectangles~~,~~ and~~diamonds, triangles,~~ ellipses~~, etc.~~ when building a said CWS~~compound wireless mobile communication service~~.

13. (Currently amended): The improvements~~methods~~ of claim 12~~7 or claim 8, inclusively,~~ further comprising~~:~~ a menu ~~of one or more building tools that achieve the following -~~ for:

a) testing a built said CWS~~compound wireless mobile communication service~~ for proper performance;

~~evaluate the price charged by a wireless mobile service provider to execute a compound wireless mobile communication service;~~

b) assigning an operational or functional expression to a said CWS~~compound wireless mobile communication service~~;

c) recording and ~~store~~ storing a voice message as a value to be used in the said facility service that audibly announces comments;

d) adding a said CWS~~compound wireless mobile communication service~~ operational or functional expression to the repertoire of said component services for use to build other said CWS~~compound wireless mobile communication services~~;

e) savings~~save~~ a built said CWS~~compound wireless mobile communication service~~ in specified memory location;

~~compile a compound wireless mobile communication service for a wireless mobile terminal;~~

~~download a compound wireless mobile communication service to a wireless mobile terminal;~~

~~select a group of component services;~~

f) copying a selected group of said component services into a temporary memory;

~~place the copied group of component services into a specified section of a compound wireless mobile communication service being built;~~

~~delete a selected group of component services;~~

g) undoing changes made while building a said CWS~~compound wireless mobile communication service~~;

~~find a sequence of typographical characters within a component service;~~

~~replace one sequence of typographical characters with another sequence of typographical characters within a component service;~~

~~print the interconnection of component services for a partially or fully built compound wireless mobile communication service;~~

~~go to the next/previous page of a compound wireless mobile communication service, when represented by more than one page of interconnected of component services;~~

~~go to the next/previous page of the component services menu, if they are represented on more than one page;~~

~~check the spelling of words;~~

~~zoom in/out of a compound wireless mobile communication service displayed by an interconnection of component services;~~

~~zoom in in/out of any menu used to build a compound wireless mobile communication service;~~

~~scroll up up/down a page on which a compound wireless mobile communication service is displayed by an interconnection of component services;~~

~~scroll up/down a page of any menu display used to build a compound wireless mobile communication service;~~

~~minimize/maximize/close a compound wireless mobile communication service being displayed by an interconnection of component services;~~

~~minimize/maximize/close any menu display used to build a compound wireless mobile communication service;~~

h) opening a said CWS~~compound wireless mobile communication service~~ display of interconnected said component services;

i) opening any menu used to build a said CWS~~compound wireless mobile communication service~~;

~~insert a compound wireless mobile communication service display of interconnected component services into a compound wireless mobile communication service being built;~~

~~justify or align typographical characters left/center/right in a displayed component service;~~

~~select size and/or font of typographical characters in a displayed component service;~~

~~highlight typographical characters with a selected color in a displayed component service;~~

j) selecting line widths of geometric shapes in a displayed said CWS~~compound wireless mobile communication service being built;~~.

~~fill geometric shapes with a selected color in a displayed compound wireless mobile communication service being built;~~

~~erase selected colors and/or geometric shapes in a displayed compound wireless mobile communication service being built.~~

14. (canceled)